



KOROK®

EXTERNAL WALL SYSTEMS

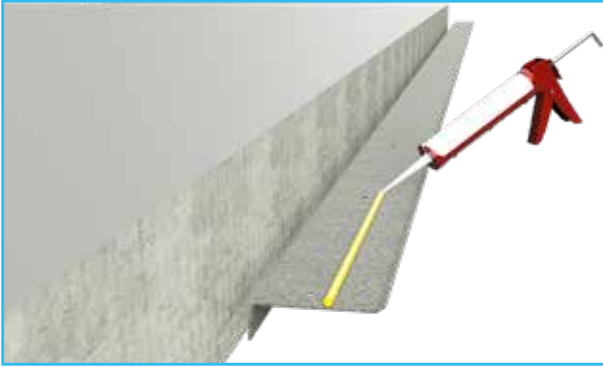
OCTOBER 2024

KOROK 

EXTERNAL WALL SYSTEMS INSTALLATION

The panels need to be handled with care prior to installation to avoid knocks, bumps and scratches which may lead to maintenance issues at a later date. Panels to be stored on their flat or in their pallets.

When using long panels, care must be taken when lifting the panels into place that they do not deflect so much that the skin is wrinkled.

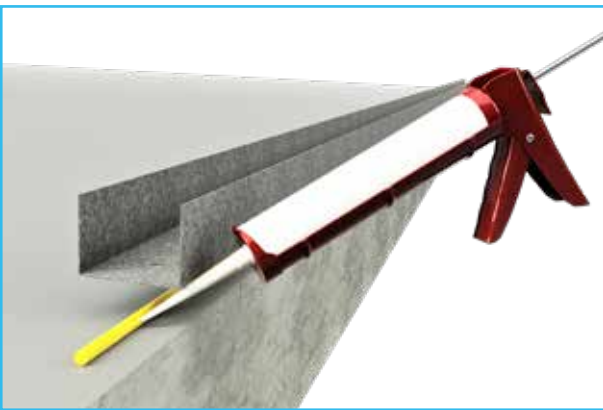


STEP 1 - EX1 AND EX2 SYSTEMS

This step is not required for EX3, EX4 and EX5 systems.

Install KOROK® Exterior 3mm Base Angle.

First apply 1 row of 10mm bead of Sikaflex-400 fire-rated sealant to the back of the KOROK® Exterior 3mm Base Angle. Place the Angle in position against the concrete slab and drill 6mm holes into the slab at the pre-drilled 400mm centres.



STEP 1A - EX3, EX4 AND EX5 SYSTEMS

This step is not required for EX1 and EX2 systems.

Ensure C-track is sealed to the structure. A continuous bead of fire-rated sealant is run along the floor before the C-track is laid and fixed.

OR

The sealant can be applied directly to the C-track before fixing in place.

Using a masonry drill bit, drill the track at 400mm centres. Secure the track with the specified fixings.



STEP 2 - EX1 AND EX2 SYSTEMS

This step is not required for EX3, EX4 and EX5 systems.

Fasten the slab mounted Angle to the concrete slab with the 6.5x75mm Blue Tip screws.

If the slab is uneven, add a second bead of sealant in the corner of the KOROK® Exterior 3mm Base Angle and the slab.

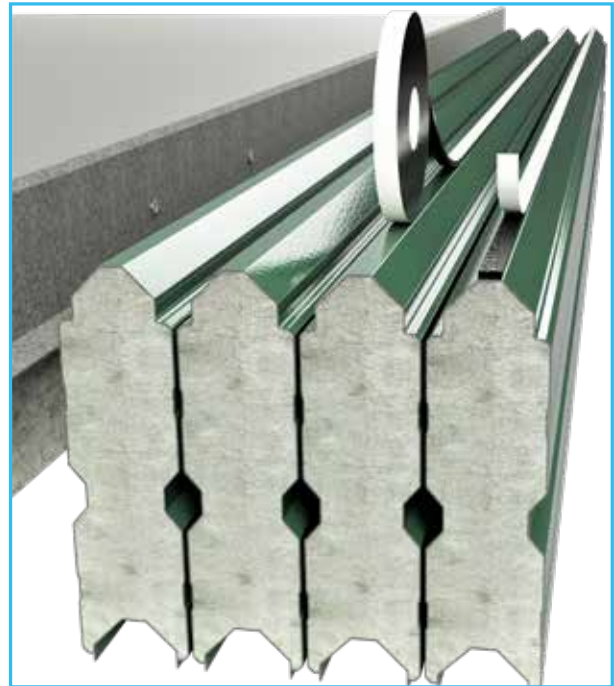
EXTERNAL WALL SYSTEMS INSTALLATION

STEP 3 - EX1 AND EX2 SYSTEMS

This step is not required for EX3, EX4 and EX5 Systems.

Prepare the KOROK® panels for installation.

Apply KOROK® foam to the male ends of the panels and remove the paper. Do this while the panels are still in the pack for efficiency.



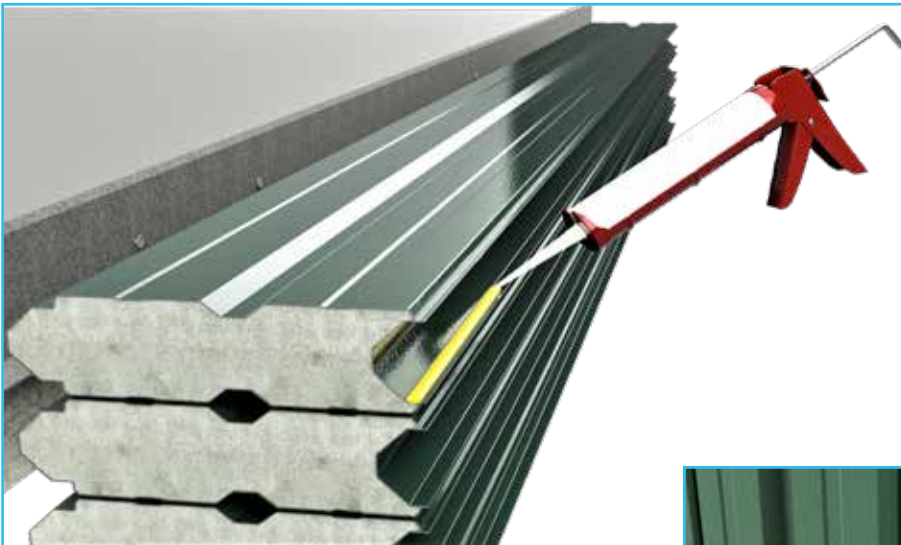
STEP 4 - EX1 AND EX2 SYSTEMS

This step is not required for EX3, EX4 and EX5 systems.

Apply fire-rated sealant to the KOROK® panels.

Remove the panels from the pack and apply a bead of KOROK® sealant to the internal lap of the female end just prior to installing the panel.

When laying the panels horizontally ensure the surface is clean and free from grit as the panel coating may scratch and mark.

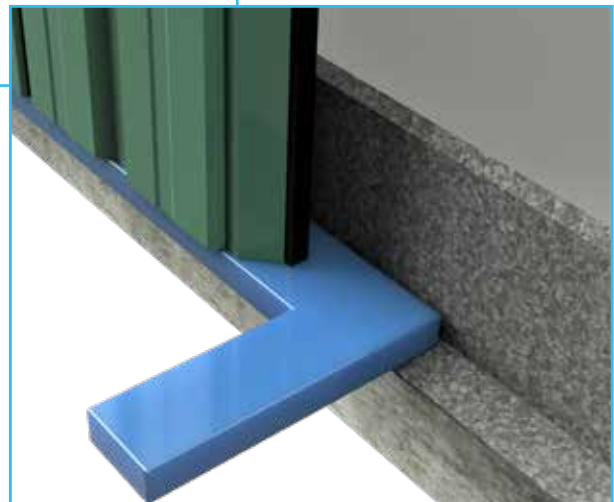


STEP 5 - EX1 AND EX2 SYSTEMS

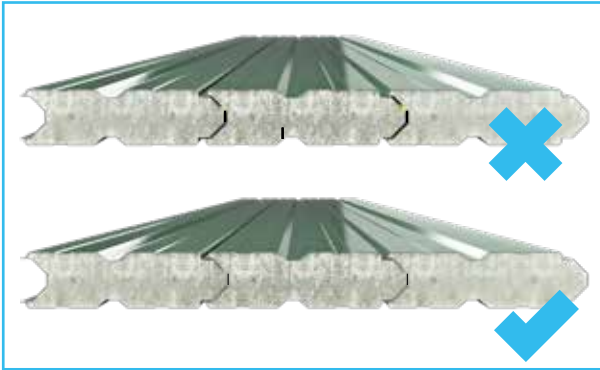
Install first KOROK® panel.

Ensure the first panel is plumbed vertical and is screw fixed into place. Lift KOROK® panels vertically into place and set the bottom of the panel on top of a 20 mm KOROK® packer.

This supports the panels during installation and maintains the 20 mm gap between the bottom of the panel and the lip of the KOROK® Exterior 3mm Base Angle. Fix each panel off before fitting the next panel and before moving the packer.



EXTERNAL WALL SYSTEMS INSTALLATION



STEP 6

Before fastening, ensure the panels are clicked together correctly to maintain performance.



STEP 7

Fix panels to supports.

Remove the strippable film where the panels are to be fastened.

With the 20 mm packer in place, fasten the KOROK® panels to the KOROK® Exterior 3mm Base Angle with 14g x 115mm Steeltite screws. At the top support use 2 Steeltite screws per panel.

Two (2) 14g x 115mm Steeltite screws per panel must be used to fix the EX1 and EX2 systems to the KOROK® Exterior 3mm Base Angle.

EX2 Systems with an unsupported span over 4 metres require **three (3)** 14g Steeltite screws per panel to fix the wall system to the KOROK® Exterior 3mm Base Angle.

Once the panel is fastened off, the packer is moved along to support the next panel.



STEP 8

Repeat steps 5-7 until the wall is complete.

EXTERNAL WALL SYSTEMS INSTALLATION



STEP 9

Fix KOROK® panels to any midspan supports.

Fix the KOROK® panels to any required midspan supports as per the wall design.

STEP 10

Add KOROK® C-track to top and sides.

Cap off the top and sides of the newly assembled wall with KOROK® C-track.



STEP 11 - EX1 AND EX2 SYSTEMS

Screw off the completed wall.

On the internal side of the wall, screw off the walls with KPS Wafer 10-16x16mm screws. Screws are inserted into each panel joint at 1 metre horizontal centres.

STEP 11A - EX3, EX4 AND EX5 SYSTEMS

Screw off the completed wall.

On either the internal side or the external side of the wall, screw off the walls with KPS Wafer 10-16x16mm screws. Screws are inserted into each panel joint at 1 metre horizontal centres.

EXTERNAL WALL SYSTEMS INSTALLATION



STEP 12 - EX3, EX4 AND EX5 SYSTEMS CLADDING INSTALLATION

The longrun profiled metal cladding system shall be installed as designed by a suitably qualified and capable practitioner, including all closures, flashings, etc.

Install Building Underlay

Install absorbent building underlay as specified.

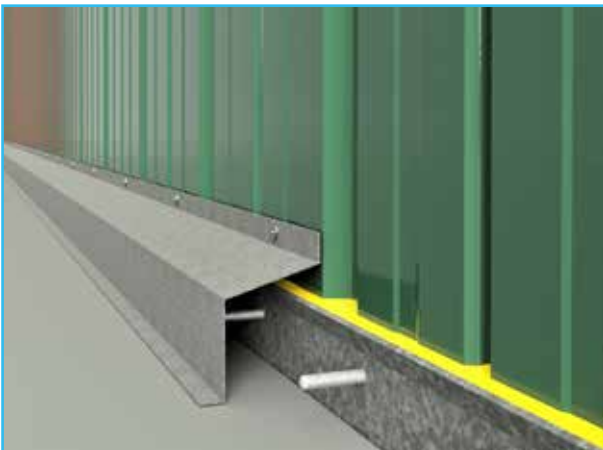
Install Cavity Battens

Fasten the cavity battens into the KOROK® panel joints at the specified centres.

Space the cavity battens at the specified spans.

Install the longrun profiled metal cladding

Fasten the cladding at the specified centres and fastening pattern through the cavity battens into the KOROK® panel.



STEP 13 - EX1 AND EX2 SYSTEMS

Install flashings

Barge, gutter and corner flashings are installed to complete the wall. Generally these are completed by the roofing/ cladding contractor.

Install the KOROK® internal base cover flashings where applicable.

EX3, EX4 and EX5 Systems do not require the KOROK® internal base cover flashings.

Final check.

At the completion of the job and at the finish of each day's work, it is essential that the completed area be thoroughly cleaned of all swarf, rivet stems, nails, drillings and screws etc. normally associated with the installation of metal KOROK® panels. Remove any remaining strippable film, check all fixings are correctly installed, all fire and acoustic sealant is applied correctly.

TABLE 7 - KOROK® FASTENERS SPACINGS

Publication	KOROK® Wall System or similar	Panel Thickness (mm)	Panel Orientation	Maximum Wall Span/ Width (m)	Panel to Panel			Panel to Structure			Notes:
					Maximum centres (mm)	One Side Only	KPS Wafer Screw	Maximum centres (mm)	Panel Face or Joint	KPS Wafer Screw	
External Wall Systems	EX1, EX2	78	Vertical	6.0 m between supporting girts (see note 1)	1000	Internal	10-16	Minimum 2 fixings per panel See Note 3.	Face	14-115	
External Wall Systems	EX3, EX4, EX5	78	Vertical	6.0 m between supporting girts (see note 1)	1000	Internal or external	10-16	As per KOROK® Technical and Installation Manual	Face	10-16 or 10-30	

NOTES

1. 78 mm Panel Properties - Span tables are based on ambient conditions. When used as part of a fire-rated system, the maximum unsupported vertical span of the KOROK® EX systems is 6.0 metres. Greater spans are subject to specific engineering design and/or fire engineering assessment.
2. Design Wind Pressures - may require specific engineering design and result in mid-span girts.
3. **Two (2)** 1.4g x 1.15mm Steeltite screws per panel must be used to fix the EX1 and EX2 systems to the KOROK® Exterior 3mm Base Angle. **EX2 systems with an unsupported span over 4 metres** require **three (3)** 1.4g Steeltite screws per panel to fix the wall system to the KOROK® Exterior 3mm Base Angle.



KOROK® COMPONENTS SUMMARY

Product Image	Item Description
	PN1144 (Colour) KOROK® C-track 60 x 80 x 60mm 1.15B.M.T.
	PN1140 (Galvanised) KOROK® C-track 60 x 80 x 60mm 1.15B.M.T.
	PN1130 (Colour) KOROK® panel 78 mm wide 250 mm cover 400 kg/m³ density
	PN1318 (Galvanised) KOROK® GEN 2 panel 78 mm wide 250 mm cover 400 kg/m³ density
	PN1185 Hilti DBZ 6/4.5 x 32mm
	PN1190 6.5 x 32 Rawl Mushroom spikes
	PN1170 KPS Wafer 10-16x16mm Class 3
	PN1171 KPS Wafer 10-16x30mm Class 3
	For EX1 and EX2 PN1161 KOROK Acrylic Fire Seal PN1165 Sikaflex-400 Fire-rated Sealant
	For EX3, EX4 and EX5 PN1157 KOROK MS Fire Seal PN1160 Hilti CP606
	PN1168 KOROK® Foam Strip

Product Image	Item Description
	PN1193 6.5x75mm Blue Tip screws
	PN1174 Hex Head SDS 14g x 22mm
	PN1198 Hex Head Type 17 14g x 35mm
	PN1178 Hex Head SDS 14g x 115mm
	PN1180 (Colour) Hex Head SDS 14g x 115mm
	Hilti X-ENP-19 L15 fasteners (strip of 10)
	Hilti DX76 fasteners (as above)
	Hilti DX76 yellow charges
	PN1150 KOROK® Angle
	KOROK® Base Steel Plate
	PN1143 KOROK® Exterior 3mm Base Angle
	PN1234 KOROK® Internal base cover flashing

SUSTAINABILITY

KOROK® is a high performance product with minimal impact on the planet

KOROK® is made to order, ensuring minimal on-site waste

KOROK® is fully re-usable

KOROK® is fully recyclable

KOROK® is manufactured in NZ

Declare.

KOROK panel
KOROK Building Systems NZ Ltd

Final Assembly: Hamilton, New Zealand
Life Expectancy: 50 Year(s)
End of Life Options: Salvageable/Reusable in its Entirety, Recyclable (100%)

Ingredients:

Inner Core: Portland Cement; Water; Fly Ash; Washed Fine Sand; Anionic Detergent Blend; Nonionic Surfactant; Polypropylene Filaments; **Outer Steel Shell :** Low Carbon Steel; Antimony; Zinc

Living Building Challenge Criteria: Compliant

I-13 Red List:

- LBC Red List Free % Disclosed: 100% at 100ppm
- LBC Red List Approved VOC Content: Not Applicable
- Declared

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

KOR-0001
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INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

 **NZGBC**
TE KAUNIHERA HANGANGA TAUTAIAO
Member 2024-2025



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ENVIRONMENTAL PRODUCT DECLARATION



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